

WO 00/15799

PCT/US99/21688

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

TANG, Y. Tom
 CORLEY, Neil C.
 GUEGLER, Karl J.
 GORGONE, Gina A.
 PATTERSON, Chandra
 HILLMAN, Jennifer L.
 BAUGHN, Mariah R.
 LAL, Preeti
 AZIMZAI, Yalda
 YUE, Henry
 YANG, Junming

<120> RNA-ASSOCIATED PROTEINS

<130> PF-0600 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/156,039; unassigned; 09/158,720; unassigned; 09/186,815;
 unassigned; 60/128,660

<151> 1998-09-17; 1998-09-17; 1998-09-22; 1998-09-22; 1998-11-04;
 1998-11-04; 1999-04-08

<160> 38

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<211> 216

<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No.: 399781CD1

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Asn	Val	Ala	Asp	Asp	Thr	Arg	Ser	Glu	Asp	Leu	Arg	Arg	Glu	Phe
			20						25					30
Gly	Arg	Tyr	Gly	Pro	Ile	Val	Asp	Val	Tyr	Val	Pro	Leu	Asp	Phe
			35						40					45
Tyr	Thr	Arg	Arg	Pro	Arg	Gly	Phe	Ala	Tyr	Val	Gln	Phe	Glu	Asp
			50						55					60
Val	Arg	Asp	Ala	Glu	Asp	Ala	Leu	His	Asn	Leu	Asp	Arg	Lys	Trp
			65						70					75
Ile	Cys	Gly	Arg	Gln	Ile	Glu	Ile	Gln	Phe	Ala	Gln	Gly	Asp	Arg
			80						85					90
Lys	Thr	Pro	Asn	Gln	Met	Lys	Ala	Lys	Glu	Gly	Arg	Asn	Val	Tyr
			95						100					105
Ser	Ser	Ser	Arg	Tyr	Asp	Asp	Tyr	Asp	Arg	Tyr	Arg	Arg	Ser	Arg
			110						115					120

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Ser	Arg	Ser	Tyr	Glu	Arg	Arg	Arg	Ser	Arg	Ser	Arg	Ser	Phe	Asp
				125					130					135
Tyr	Asn	Tyr	Arg	Arg	Ser	Tyr	Ser	Pro	Arg	Asn	Ser	Arg	Pro	Thr
				140					145					150
Gly	Arg	Pro	Arg	Arg	Arg	Glu	Ala	Ile	Pro	Thr	Met	Ile	Asp	Gln
				155					160					165
Thr	Ala	Ala	Gly	Ile	Pro	Ser	Thr	Val	Leu	Leu	Thr	Thr	Leu	Gln
				170					175					180
Glu	Arg	Ser	Glu	Ser	Gly	Lys	Arg	Thr	Lys	Glu	Gly	Gln	Phe	Lys
				185					190					195
Arg	Pro	Lys	Gly	Gly	Trp	Lys	Val	Leu	Gln	Tyr	Glu	Tyr	Cys	Thr
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Asn	Ile	Leu	Thr	Leu	Val									
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Gln	Ile	Gln	Pro	Pro	Arg	Ala	Thr	Ile	Pro	Asn	Ser	Ser	Pro	Ser
				20					25					30
Ile	Arg	Pro	Gly	Ala	Gln	Thr	Pro	Thr	Ala	Val	Tyr	Gln	Ala	Asn
				35					40					45
Gln	His	Ile	Met	Met	Val	Asn	His	Leu	Pro	Met	Pro	Tyr	Pro	Val
				50					55					60
Pro	Gln	Gly	Pro	Gln	Tyr	Cys	Ile	Pro	Gln	Tyr	Arg	His	Ser	Gly
				65					70					75
Pro	Pro	Tyr	Val	Gly	Pro	Pro	Gln	Lys	Tyr	Pro	Val	Gln	Pro	Pro
				80					85					90
Gly	Pro	Gly	Pro	Phe	Tyr	Pro	Gly	Pro	Gly	Pro	Gly	Asp	Phe	Pro
				95					100					105
Asn	Ala	Tyr	Gly	Thr	Pro	Phe	Tyr	Pro	Ser	Gln	Pro	Val	Tyr	Gln
				110					115					120
Ser	Ala	Pro	Ile	Ile	Val	Pro	Thr	Gln	Gln	Gln	Pro	Pro	Pro	Ala
				125					130					135
Lys	Arg	Glu	Lys	Lys	Thr	Ile	Arg	Ile	Arg	Asp	Pro	Asn	Gln	Gly
				140					145					150
Gly	Lys	Asp	Ile	Thr	Glu	Glu	Ile	Met	Ser	Gly	Gly	Gly	Ser	Arg
				155					160					165
Asn	Pro	Thr	Pro	Pro	Ile	Gly	Arg	Pro	Thr	Ser	Thr	Pro	Thr	Pro
				170					175					180
Pro	Gln	Leu	Pro	Ser	Gln	Val	Pro	Glu	His	Ser	Pro	Val	Val	Tyr
				185					190					195
Gly	Thr	Val	Glu	Ser	Ala	His	Leu	Ala	Ser	Thr	Pro	Val	Thr	Thr
				200					205					210
Ala	Ala	Ser	Asp	Gln	Lys	Gln	Glu	Glu	Lys	Pro	Lys	Pro	Asp	Pro
				215					220					225
Val	Leu	Lys	Ser	Pro	Ser	Pro	Val	Leu	Arg	Leu	Val	Leu	Ser	Gly

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Pro Met Arg Thr	Leu Asp Pro Arg Ile	Leu Pro Arg Gly Pro	Asp
	665	670	675
Phe Thr Pro Ala	Phe Ala Asp Phe Gly Arg	Gln Thr Pro Gly Gly	
	680	685	690
Arg Gly Val Pro	Leu Leu Asn Val Gly Ser	Arg Arg Ser Gln Pro	
	695	700	705
Gly Gln Arg Arg	Glu Pro Arg Lys Ile	Ile Thr Val Ser Val Lys	
	710	715	720
Glu Asp Val His	Leu Lys Lys Ala Glu Asn	Ala Trp Lys Pro Ser	
	725	730	735
Gln Lys Arg Asp	Ser Gln Ala Asp Asp	Pro Glu Asn Ile Lys Thr	
	740	745	750
Gln Glu Leu Phe	Arg Lys Val Arg Ser	Ile Leu Asn Lys Leu Thr	
	755	760	765
Pro Gln Met Phe	Asn Gln Leu Met Lys	Gln Val Ser Gly Leu Thr	
	770	775	780
Val Asp Thr Glu	Glu Arg Leu Lys Gly	Val Ile Asp Leu Val Phe	
	785	790	795
Glu Lys Ala Ile	Asp Glu Pro Ser Phe	Ser Val Ala Tyr Ala Asn	
	800	805	810
Met Cys Arg Cys	Leu Val Thr Leu Lys	Val Pro Met Ala Asp Lys	
	815	820	825
Pro Gly Asn Thr	Val Asn Phe Arg Lys	Leu Leu Asn Arg Cys	
	830	835	840
Gln Lys Glu Phe	Glu Lys Asp Lys Ala	Asp Asp Asp Val Phe Glu	
	845	850	855
Lys Lys Gln Lys	Glu Leu Glu Ala Ala	Ser Ala Pro Glu Glu Arg	
	860	865	870
Thr Arg Leu His	Asp Glu Leu Glu Glu	Ala Lys Asp Lys Ala Arg	
	875	880	885
Arg Arg Ser Ile	Gly Asn Ile Lys Phe	Ile Gly Glu Leu Phe Lys	
	890	895	900
Leu Lys Met Leu	Thr Glu Ala Ile Met	His Asp Cys Val Val Lys	
	905	910	915
Leu Leu Lys Asn	His Asp Glu Glu Ser	Leu Glu Cys Leu Cys Arg	
	920	925	930
Leu Leu Thr Thr	Ile Gly Lys Asp Leu	Asp Phe Glu Lys Ala Lys	
	935	940	945
Pro Arg Met Asp	Gln Tyr Phe Asn Gln	Met Glu Lys Ile Val Lys	
	950	955	960
Glu Lys Lys Thr	Ser Ser Arg Ile Arg	Phe Met Leu Gln Asp Val	
	965	970	975
Ile Asp Leu Arg	Leu Cys Asn Trp Val	Ser Arg Arg Ala Asp Gln	
	980	985	990
Gly Pro Lys Thr	Ile Glu Gln Ile His	Lys Glu Ala Lys Ile Glu	
	995	1000	1005
Glu Gln Glu Glu	Gln Arg Lys Val Gln	Gln Leu Met Thr Lys Glu	
	1010	1015	1020
Lys Arg Arg Pro	Gly Val Gln Arg Val	Asp Glu Gly Gly Trp Asn	
	1025	1030	1035
Thr Val Gln Gly	Ala Lys Asn Ser Arg	Val Leu Asp Pro Ser Lys	
	1040	1045	1050
Phe Leu Lys Ile	Thr Lys Pro Thr Ile	Asp Glu Lys Ile Gln Leu	
	1055	1060	1065
Val Pro Lys Ala	Gln Leu Gly Ser Trp	Gly Lys Gly Ser Ser Gly	
	1070	1075	1080
Gly Ala Lys Ala	Ser Glu Thr Asp Ala	Leu Arg Ser Ser Ala Ser	

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1085	1090	1095
Ser Leu Asn Arg Phe	Ser Ala Leu Gln Pro	Pro Ala Pro Ser Gly
1100	1105	1110
Ser Thr Pro Ser Thr	Pro Val Glu Phe Asp	Ser Arg Arg Thr Leu
1115	1120	1125
Thr Ser Arg Gly Ser	Met Gly Arg Glu Lys	Asn Asp Lys Pro Leu
1130	1135	1140
Pro Ser Ala Thr Ala	Arg Pro Asn Thr Phe	Met Arg Gly Gly Ser
1145	1150	1155
Ser Lys Asp Leu Leu	Asp Asn Gln Ser Gln	Glu Glu Gln Arg Arg
1160	1165	1170
Glu Met Leu Glu Thr	Val Lys Gln Leu Thr	Gly Gly Val Asp Val
1175	1180	1185
Glu Arg Asn Ser Thr	Glu Ala Glu Arg Asn	Lys Thr Arg Glu Ser
1190	1195	1200
Ala Lys Pro Glu Ile	Ser Ala Met Ser Ala	His Asp Lys Ala Ala
1205	1210	1215
Leu Ser Glu Glu Glu	Leu Glu Arg Lys Ser	Lys Ser Ile Ile Asp
1220	1225	1230
Glu Phe Leu His Ile	Asn Asp Phe Lys Glu	Ala Met Gln Cys Val
1235	1240	1245
Glu Glu Leu Asn Ala	Gln Gly Leu Leu His	Val Phe Val Arg Val
1250	1255	1260
Gly Val Glu Ser Thr	Leu Glu Arg Ser Gln	Ile Thr Arg Asp His
1265	1270	1275
Met Gly Gln Leu Leu	Tyr Gln Leu Val Gln	Ser Glu Lys Leu Ser
1280	1285	1290
Lys Gln Asp Phe Phe	Lys Gly Phe Ser Glu	Thr Leu Glu Leu Ala
1295	1300	1305
Asp Asp Met Ala Ile	Asp Ile Pro His Ile	Trp Leu Tyr Leu Ala
1310	1315	1320
Glu Leu Val Thr Pro	Met Leu Lys Glu Gly	Gly Ile Ser Met Arg
1325	1330	1335
Glu Leu Thr Ile Glu	Phe Ser Lys Pro Leu	Leu Pro Val Gly Arg
1340	1345	1350
Ala Gly Val Leu Leu	Ser Glu Ile Leu His	Leu Leu Cys Lys Gln
1355	1360	1365
Met Ser His Lys Lys	Val Gly Ala Leu Trp	Arg Glu Ala Asp Leu
1370	1375	1380
Ser Trp Lys Asp Phe	Leu Pro Glu Gly Glu	Asp Val His Asn Phe
1385	1390	1395
Leu Leu Glu Gln Lys	Leu Asp Phe Ile Glu	Ser Asp Ser Pro Cys
1400	1405	1410
Ser Ser Glu Ala Leu	Ser Lys Lys Glu Leu	Ser Ala Glu Glu Leu
1415	1420	1425
Tyr Lys Arg Leu Glu	Lys Leu Ile Ile Glu	Asp Lys Ala Asn Asp
1430	1435	1440
Glu Gln Ile Phe Asp	Trp Val Glu Ala Asn	Leu Asp Glu Ile Gln
1445	1450	1455
Met Ser Ser Pro Thr	Phe Leu Arg Ala Leu	Met Thr Ala Val Cys
1460	1465	1470
Lys Ala Ala Ile Ile	Ala Asp Ser Ser Thr	Phe Arg Val Asp Thr
1475	1480	1485
Ala Val Ile Lys Gln	Arg Val Pro Ile Leu	Leu Lys Tyr Leu Asp
1490	1495	1500
Ser Asp Thr Glu Lys	Glu Leu Gln Ala Leu	Tyr Ala Leu Gln Ala
1505	1510	1515

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Ser Ile Val Lys Leu Asp Gln Pro Ala Asn Leu Leu Arg Met Phe
 1520 1525 1530
 Phe Asp Cys Leu Tyr Asp Glu Glu Val Ile Ser Glu Asp Ala Phe
 1535 1540 1545
 Tyr Lys Trp Glu Ser Ser Lys Asp Pro Ala Glu Gln Asn Gly Lys
 1550 1555 1560
 Gly Val Ala Leu Lys Ser Val Thr Ala Phe Phe Thr Trp Leu Arg
 1565 1570 1575
 Glu Ala Glu Glu Glu Ser Glu Asp Asn
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 Gly Leu His Phe Arg Val Leu Asp Met Pro Thr Gln Glu Leu Gly
 35 40 45
 Leu Pro Ala Tyr Arg Lys Phe Asp Ile Glu Ala Trp Met Pro Gly
 50 55 60
 Arg Gly Arg Phe Gly Glu Val Thr Ser Ala Ser Asn Cys Thr Asp
 65 70 75
 Phe Gln Ser Arg Arg Leu His Ile Met Phe Gln Thr Glu Ala Gly
 80 85 90
 Glu Leu Gln Phe Ala His Thr Val Asn Ala Thr Ala Cys Ala Val
 95 100 105
 Pro Arg Leu Leu Ile Ala Leu Leu Glu Ser Asn Gln Gln Lys Asp
 110 115 120
 Gly Ser Val Leu Val Pro Pro Ala Leu Gln Ser Tyr Leu Gly Thr
 125 130 135
 Asp Arg Ile Thr Ala Pro Thr His Val Pro Leu Gln Tyr Ile Gly
 140 145 150
 Pro Asn Gln Pro Arg Lys Pro Gly Leu Pro Gly Gln Pro Ala Val
 155 160 165
 Ser

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Glu	Asn	Glu	Glu	Asp	Leu	Pro	Glu	Leu	Ser	Asp	Ser	Gly	Asp	Glu
				20					25					30
Ala	Ala	Trp	Glu	Asp	Glu	Asp	Asp	Ala	Asp	Leu	Pro	His	Gly	Lys
				35					40					45
Gln	Gln	Thr	Pro	Cys	Leu	Phe	Cys	Asn	Arg	Leu	Phe	Thr	Ser	Ala
				50					55					60
Glu	Glu	Thr	Phe	Ser	His	Cys	Lys	Ser	Glu	His	Gln	Phe	Asn	Ile
				65					70					75
Asp	Ser	Met	Val	His	Lys	His	Gly	Leu	Glu	Phe	Tyr	Gly	Tyr	Ile
				80					85					90
Lys	Leu	Ile	Asn	Phe	Ile	Arg	Leu	Lys	Asn	Pro	Thr	Val	Glu	Tyr
				95					100					105
Met	Asn	Ser	Ile	Tyr	Asn	Pro	Val	Pro	Trp	Glu	Lys	Glu	Glu	Tyr
				110					115					120
Leu	Lys	Pro	Val	Leu	Glu	Asp	Asp	Leu	Leu	Leu	Gln	Phe	Asp	Val
				125					130					135
Glu	Asp	Leu	Tyr	Glu	Pro	Val	Ser	Val	Pro	Phe	Ser	Tyr	Pro	Asn
				140					145					150
Gly	Leu	Ser	Glu	Asn	Thr	Ser	Val	Val	Glu	Lys	Leu	Lys	His	Met
				155					160					165
Glu	Ala	Arg	Ala	Leu	Ser	Ala	Glu	Ala	Ala	Leu	Ala	Arg	Ala	Arg
				170					175					180
Glu	Asp	Leu	Gln	Lys	Met	Lys	Gln	Phe	Ala	Gln	Asp	Phe	Val	Met
				185					190					195
His	Thr	Asp	Val	Arg	Thr	Cys	Ser	Ser	Ser	Thr	Ser	Val	Ile	Ala
				200					205					210
Asp	Leu	Gln	Glu	Asp	Glu	Asp	Gly	Val	Tyr	Phe	Ser	Ser	Tyr	Gly
				215					220					225
His	Tyr	Gly	Ile	His	Glu	Glu	Met	Leu	Lys	Asp	Lys	Ile	Arg	Thr
				230					235					240
Glu	Ser	Tyr	Arg	Asp	Phe	Ile	Tyr	Gln	Asn	Pro	His	Ile	Phe	Lys
				245					250					255
Asp	Lys	Val	Val	Leu	Asp	Val	Gly	Cys	Gly	Thr	Gly	Ile	Leu	Ser
				260					265					270
Met	Phe	Ala	Ala	Lys	Ala	Gly	Ala	Lys	Lys	Val	Leu	Gly	Val	Asp
				275					280					285
Gln	Ser	Glu	Ile	Leu	Tyr	Gln	Ala	Met	Asp	Ile	Ile	Arg	Leu	Asn
				290					295					300
Lys	Leu	Glu	Asp	Thr	Ile	Thr	Leu	Ile	Lys	Gly	Lys	Ile	Glu	Glu
				305					310					315
Val	His	Leu	Pro	Val	Glu	Lys	Val	Asp	Val	Ile	Ile	Ser	Glu	Trp
				320					325					330
Met	Gly	Tyr	Phe	Leu	Leu	Phe	Glu	Ser	Met	Leu	Asp	Ser	Val	Leu
				335					340					345
Tyr	Ala	Lys	Asn	Lys	Tyr	Leu	Ala	Lys	Gly	Gly	Ser	Val	Tyr	Pro
				350					355					360
Asp	Ile	Cys	Thr	Ile	Ser	Leu	Val	Ala	Val	Ser	Asp	Val	Asn	Lys
				365					370					375
His	Ala	Asp	Arg	Ile	Ala	Phe	Trp	Asp	Asp	Val	Tyr	Gly	Phe	Lys
				380					385					390
Met	Ser	Cys	Met	Lys	Lys	Ala	Val	Ile	Pro	Glu	Ala	Val	Val	Glu
				395					400					405
Val	Leu	Asp	Pro	Lys	Thr	Leu	Ile	Ser	Glu	Pro	Cys	Gly	Ile	Lys
				410					415					420
His	Ile	Asp	Cys	His	Thr	Thr	Ser	Ile	Ser	Asp	Leu	Glu	Phe	Ser

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	425		430		435
Ser Asp Phe Thr	Leu Lys Ile Thr Arg	Thr Ser Met Cys Thr	Ala		
	440		445		450
Ile Ala Gly Tyr	Phe Asp Ile Tyr Phe	Glu Lys Asn Cys His	Asn		
	455		460		465
Arg Val Val Phe	Ser Thr Gly Pro Gln	Ser Thr Lys Thr His	Trp		
	470		475		480
Lys Gln Thr Val	Phe Leu Leu Glu Lys	Pro Phe Ser Val Lys	Ala		
	485		490		495
Gly Glu Ala Leu	Lys Gly Lys Val Thr	Val His Lys Asn Lys	Lys		
	500		505		510
Asp Pro Arg Ser	Leu Thr Val Thr Leu	Thr Leu Asn Asn Ser	Thr		
	515		520		525
Gln Thr Tyr Gly	Leu Gln				
	530				

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Ser Leu Leu Ser Pro	Thr Pro Ala Thr Ala Leu Ala Val Arg Tyr
	20 25 30
Ala Ser Lys Lys Ser	Gly Gly Ser Ser Lys Asn Leu Gly Gly Lys
	35 40 45
Ser Ser Gly Arg Arg	Gln Gly Ile Lys Lys Met Glu Gly His Tyr
	50 55 60
Val His Ala Gly Asn	Ile Ile Ala Thr Gln Arg His Phe Arg Trp
	65 70 75
His Pro Gly Ala His	Val Gly Val Gly Lys Asn Lys Cys Leu Tyr
	80 85 90
Ala Leu Glu Glu Gly	Ile Val Arg Tyr Thr Lys Glu Val Tyr Val
	95 100 105
Pro His Pro Arg Asn	Thr Glu Ala Val Asp Leu Ile Thr Arg Leu
	110 115 120
Pro Lys Gly Ala Val	Leu Tyr Lys Thr Phe Val His Val Val Pro
	125 130 135
Ala Lys Pro Glu Gly	Thr Phe Lys Leu Val Ala Met Leu
	140 145

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<400> 6

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Phe	Lys	Lys	His	Ser	Glu	Asn	Leu	Arg	Gly	Ile	Thr	Leu	Val	Cys
				20					25					30
Leu	Asn	Cys	Asp	Phe	Leu	Ser	Asp	Val	Ser	Gly	Leu	Asp	Asn	Met
				35					40					45
Ala	Thr	His	Leu	Ser	Gln	His	Lys	Thr	His	Thr	Cys	Gln	Val	Val
				50					55					60
Met	Gln	Lys	Val	Ser	Val	Cys	Ile	Pro	Thr	Ser	Glu	His	Leu	Ser
				65					70					75
Glu	Leu	Lys	Lys	Glu	Ala	Pro	Ala	Lys	Glu	Gln	Glu	Pro	Val	Ser
				80					85					90
Lys	Glu	Ile	Ala	Arg	Pro	Asn	Met	Ala	Glu	Arg	Glu	Thr	Glu	Thr
				95					100					105
Ser	Asn	Ser	Glu	Ser	Lys	Gln	Asp	Lys	Ala	Ala	Ser	Ser	Lys	Glu
				110					115					120
Lys	Asn	Gly	Cys	Asn	Ala	Asn	Ser	Phe	Glu	Gly	Ser	Ser	Thr	Thr
				125					130					135
Lys	Ser	Glu	Glu	Ser	Ile	Thr	Val	Ser	Asp	Lys	Glu	Asn	Glu	Thr
				140					145					150
Cys	Leu	Ala	Asp	Gln	Glu	Thr	Gly	Ser	Lys	Asn	Ile	Val	Ser	Cys
				155					160					165
Asp	Ser	Asn	Ile	Gly	Ala	Asp	Lys	Val	Glu	Lys	Lys	Lys	Gln	Ile
				170					175					180
Gln	His	Val	Cys	Gln	Glu	Met	Glu	Leu	Lys	Met	Cys	Gln	Ser	Ser
				185					190					195
Glu	Asn	Ile	Ile	Leu	Ser	Asp	Gln	Ile	Lys	Asp	His	Asn	Ser	Ser
				200					205					210
Glu	Ala	Arg	Phe	Ser	Ser	Lys	Asn	Ile	Lys	Asp	Leu	Arg	Leu	Ala
				215					220					225
Ser	Asp	Asn	Val	Ser	Ile	Asp	Gln	Phe	Leu	Arg	Lys	Arg	His	Glu
				230					235					240
Pro	Glu	Ser	Val	Ser	Ser	Asp	Val	Ser	Glu	Gln	Gly	Ser	Ile	His
				245					250					255
Leu	Glu	Pro	Leu	Thr	Pro	Ser	Glu	Val	Leu	Glu	Tyr	Glu	Ala	Thr
				260					265					270
Glu	Ile	Leu	Gln	Lys	Gly	Ser	Gly	Asp	Pro	Ser	Ala	Lys	Thr	Asp
				275					280					285
Glu	Val	Val	Ser	Asp	Gln	Thr	Asp	Asp	Ile	Pro	Gly	Gly	Asn	Asn
				290					295					300
Pro	Ser	Thr	Thr	Glu	Ala	Thr	Val	Asp	Leu	Glu	Asp	Glu	Lys	Glu
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Arg Ser

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<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No.: 1437783CD1

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Ser Glu Asn Ser Cys Ile Arg Cys Phe Gly Lys His Ile Leu Gln
 20          25          30
Lys Thr Ala Pro Ala Gln Leu Ser Pro Ile Ala Ser Ala Pro Arg
 35          40          45
Leu Ser Phe Leu Ile His Ala Lys Ala Phe Ser Thr Ala Glu Asp
 50          55          60
Thr Gln Asn Glu Gly Lys Lys Thr Lys Lys Asn Lys Thr Ala Phe
 65          70          75
Ser Asn Val Gly Arg Lys Ile Ser Gln Arg Val Ile His Leu Phe
 80          85          90
Asp Glu Lys Gly Asn Asp Leu Gly Asn Met His Arg Ala Asn Val
 95          100         105
Ile Arg Leu Met Asp Glu Arg Asp Leu Arg Leu Val Gln Arg Asn
 110         115         120
Thr Ser Thr Glu Pro Ala Glu Tyr Gln Leu Met Thr Gly Leu Gln
 125         130         135
Ile Leu Gln Glu Arg Gln Arg Leu Arg Glu Met Glu Lys Ala Asn
 140         145         150
Pro Lys Thr Gly Pro Thr Leu Arg Lys Glu Leu Ile Leu Ser Ser
 155         160         165
Asn Ile Gly Gln His Asp Leu Asp Thr Lys Thr Lys Gln Ile Gln
 170         175         180
Gln Trp Ile Lys Lys Lys His Leu Val Gln Ile Thr Ile Lys Lys
 185         190         195
Gly Lys Asn Val Asp Val Ser Glu Asn Glu Met Glu Glu Ile Phe
 200         205         210
His Gln Ile Leu Gln Thr Met Pro Gly Ile Ala Thr Phe Ser Ser
 215         220         225
Arg Pro Gln Ala Val Gln Gly Gly Lys Ala Leu Met Cys Val Leu
 230         235         240
Arg Ala Leu Ser Lys Asn Glu Glu Lys Ala Tyr Lys Glu Thr Gln
 245         250         255
Glu Thr Gln Glu Arg Asp Thr Leu Asn Lys Asp His Gly Asn Asp
 260         265         270
Lys Glu Ser Asn Val Leu His Gln
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<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No.: 1557635CD1

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<400> 8
Met Ser Ala Thr Val Val Asp Ala Val Asn Ala Ala Pro Leu Ser
 1          5          10          15
Gly Ser Lys Glu Met Ser Leu Glu Glu Pro Lys Lys Met Thr Arg
 20          25          30
Glu Asp Trp Arg Lys Lys Lys Glu Leu Glu Glu Gln Arg Lys Leu
 35          40          45

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Gly	Asn	Ala	Pro	Ala	Glu	Val	Asp	Glu	Glu	Gly	Lys	Asp	Ile	Asn	
				50					55					60	
Pro	His	Ile	Pro	Gln	Tyr	Ile	Ser	Ser	Val	Pro	Trp	Tyr	Ile	Asp	
				65					70					75	
Pro	Ser	Lys	Arg	Pro	Thr	Leu	Lys	His	Gln	Arg	Pro	Gln	Pro	Glu	
				80					85					90	
Lys	Gln	Lys	Gln	Phe	Ser	Ser	Ser	Gly	Glu	Trp	Tyr	Lys	Arg	Gly	
				95					100					105	
Val	Lys	Glu	Asn	Ser	Ile	Ile	Thr	Lys	Tyr	Arg	Lys	Gly	Ala	Cys	
				110					115					120	
Glu	Asn	Cys	Gly	Ala	Met	Thr	His	Lys	Lys	Lys	Asp	Cys	Phe	Glu	
				125					130					135	
Arg	Pro	Arg	Arg	Val	Gly	Ala	Lys	Phe	Thr	Gly	Thr	Asn	Ile	Ala	
				140					145					150	
Pro	Asp	Glu	His	Val	Gln	Pro	Gln	Leu	Met	Phe	Asp	Tyr	Asp	Gly	
				155					160					165	
Lys	Arg	Asp	Arg	Trp	Asn	Gly	Tyr	Asn	Pro	Glu	Glu	His	Met	Lys	
				170					175					180	
Ile	Val	Glu	Glu	Tyr	Ala	Lys	Val	Asp	Leu	Ala	Lys	Arg	Thr	Leu	
				185					190					195	
Lys	Ala	Gln	Lys	Leu	Gln	Glu	Glu	Leu	Ala	Ser	Gly	Lys	Leu	Val	
				200					205					210	
Glu	Gln	Ala	Asn	Ser	Pro	Lys	His	Gln	Trp	Gly	Glu	Glu	Glu	Pro	
				215					220					225	
Asn	Ser	Gln	Thr	Glu	Lys	Asp	His	Asn	Ser	Glu	Asp	Glu	Asp	Glu	
				230					235					240	
Asp	Lys	Tyr	Ala	Asp	Asp	Ile	Asp	Met	Pro	Gly	Gln	Asn	Phe	Asp	
				245					250					255	
Ser	Lys	Arg	Arg	Ile	Thr	Val	Arg	Asn	Leu	Arg	Ile	Arg	Glu	Asp	
				260					265					270	
Ile	Ala	Lys	Tyr	Leu	Arg	Asn	Leu	Asp	Pro	Asn	Ser	Ala	Tyr	Tyr	
				275					280					285	
Asp	Pro	Lys	Thr	Arg	Ala	Met	Arg	Glu	Asn	Pro	Tyr	Ala	Asn	Ala	
				290					295					300	
Gly	Lys	Asn	Pro	Asp	Glu	Val	Ser	Tyr	Ala	Gly	Asp	Asn	Phe	Val	
				305					310					315	
Arg	Tyr	Thr	Gly	Asp	Thr	Ile	Ser	Met	Ala	Gln	Thr	Gln	Leu	Phe	
				320					325					330	
Ala	Trp	Glu	Ala	Tyr	Asp	Lys	Gly	Ser	Glu	Val	His	Leu	Gln	Ala	
				335					340					345	
Asp	Pro	Thr	Lys	Leu	Glu	Leu	Leu	Tyr	Lys	Ser	Phe	Lys	Val	Lys	
				350					355					360	
Lys	Glu	Asp	Phe	Lys	Glu	Gln	Gln	Lys	Glu	Ser	Ile	Leu	Glu	Lys	
				365					370					375	
Tyr	Gly	Gly	Gln	Glu	His	Leu	Asp	Ala	Pro	Pro	Ala	Glu	Leu	Leu	
				380					385					390	
Leu	Ala	Gln	Thr	Glu	Asp	Tyr	Val	Glu	Tyr	Ser	Arg	His	Gly	Thr	
				395					400					405	
Val	Ile	Lys	Gly	Gln	Glu	Arg	Ala	Val	Ala	Cys	Ser	Lys	Tyr	Glu	
				410					415					420	
Glu	Asp	Val	Lys	Ile	His	Asn	His	Thr	His	Ile	Trp	Gly	Ser	Tyr	
				425					430					435	
Trp	Lys	Glu	Gly	Arg	Trp	Gly	Tyr	Lys	Cys	Cys	His	Ser	Phe	Phe	
				440					445					450	
Lys	Tyr	Ser	Tyr	Cys	Thr	Gly	Glu	Ala	Gly	Lys	Glu	Ile	Val	Asn	
				455					460					465	
Ser	Glu	Glu	Cys	Ile	Ile	Asn	Glu	Ile	Thr	Gly	Glu	Glu	Ser	Val	

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	215		220		225
Arg Met His Asn Asp Thr Trp Val Leu	Leu Asn Gln Arg Arg Gly				
	230		235		240
Phe Leu Cys Asn Gln Ala Pro His Lys	His Gly Phe Leu Glu Gly				
	245		250		255
Arg His Ala Glu Leu Cys Phe Leu Asp	Val Ile Pro Phe Trp Lys				
	260		265		270
Leu Asp Leu Asp Gln Asp Tyr Arg Val	Thr Cys Phe Thr Ser Trp				
	275		280		285
Ser Pro Cys Phe Ser Cys Ala Gln Glu	Met Ala Lys Phe Ile Ser				
	290		295		300
Lys Asn Lys His Val Ser Leu Cys Ile	Phe Thr Ala Arg Ile Tyr				
	305		310		315
Asp Asp Gln Gly Arg Cys Gln Glu Gly	Leu Arg Thr Leu Ala Glu				
	320		325		330
Ala Gly Ala Lys Ile Ser Ile Leu Thr	Tyr Ser Glu Phe Lys His				
	335		340		345
Cys Trp Asp Thr Phe Val Asp His Gln	Gly Cys Pro Phe Gln Pro				
	350		355		360
Trp Asp Gly Leu Glu Glu His Ser Gln	Ala Leu Ser Gly Arg Leu				
	365		370		375
Arg Gly Ile Leu Gln Asn Gln Gly Ser					
	380				

<210> 10

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 2231663CD1

<400> 10

Met Ala Ala Ala Val Arg Cys Met Gly Arg	Ala Leu Ile His His		
1	5	10	15
Gln Arg His Ser Leu Ser Lys Met Val Tyr	Gln Thr Ser Leu Cys		
	20	25	30
Ser Cys Ser Val Asn Ile Arg Val Pro Asn	Arg His Phe Ala Ala		
	35	40	45
Ala Thr Lys Ser Ala Lys Lys Thr Lys Lys	Gly Ala Lys Glu Lys		
	50	55	60
Thr Pro Asp Glu Lys Lys Asp Glu Ile Glu	Lys Ile Lys Ala Tyr		
	65	70	75
Pro Tyr Met Glu Gly Glu Pro Glu Asp Asp	Val Tyr Leu Lys Arg		
	80	85	90
Leu Tyr Pro Arg Gln Ile Tyr Glu Val Glu	Lys Ala Val His Leu		
	95	100	105
Leu Lys Lys Phe Gln Ile Leu Asp Phe Thr	Ser Pro Lys Gln Ser		
	110	115	120
Val Tyr Leu Asp Leu Thr Leu Asp Met Ala	Leu Gly Lys Lys Lys		
	125	130	135
Asn Val Glu Pro Phe Thr Ser Val Leu Ser	Leu Pro Tyr Pro Phe		
	140	145	150
Ala Ser Glu Ile Asn Lys Val Ala Val Phe	Thr Glu Asn Ala Ser		
	155	160	165

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Glu	Val	Lys	Ile	Ala	Glu	Glu	Asn	Gly	Ala	Ala	Phe	Ala	Gly	Gly
				170					175					180
Thr	Ser	Leu	Ile	Gln	Lys	Ile	Trp	Asp	Asp	Glu	Ile	Val	Ala	Asp
				185					190					195
Phe	Tyr	Val	Ala	Val	Pro	Glu	Ile	Met	Pro	Glu	Leu	Asn	Arg	Leu
				200					205					210
Arg	Lys	Lys	Leu	Asn	Lys	Lys	Tyr	Pro	Lys	Leu	Ser	Arg	Asn	Ser
				215					220					225
Ile	Gly	Arg	Asp	Ile	Pro	Lys	Met	Leu	Glu	Leu	Phe	Lys	Asn	Gly
				230					235					240
His	Glu	Ile	Lys	Val	Asp	Glu	Glu	Arg	Glu	Asn	Phe	Leu	Gln	Thr
				245					250					255
Lys	Ile	Ala	Thr	Leu	Asp	Met	Ser	Ser	Asp	Gln	Ile	Ala	Ala	Asn
				260					265					270
Leu	Gln	Ala	Val	Ile	Asn	Glu	Val	Cys	Arg	His	Arg	Pro	Leu	Asn
				275					280					285
Leu	Gly	Pro	Phe	Val	Val	Arg	Ala	Phe	Leu	Arg	Ser	Ser	Thr	Ser
				290					295					300
Glu	Gly	Leu	Leu	Leu	Lys	Ile	Asp	Pro	Leu	Leu	Pro	Lys	Glu	Val
				305					310					315
Lys	Asn	Glu	Glu	Ser	Glu	Lys	Glu	Asp	Ala					
				320					325					

<210> 11

<211> 351

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 2604449CD1

<400> 11

Met	Gly	Asp	Pro	Glu	Arg	Pro	Glu	Ala	Ala	Gly	Leu	Asp	Gln	Asp
1				5					10					15
Glu	Arg	Ser	Ser	Ser	Asp	Thr	Asn	Glu	Ser	Glu	Ile	Lys	Ser	Asn
				20					25					30
Glu	Glu	Pro	Leu	Leu	Arg	Lys	Ser	Ser	Arg	Arg	Phe	Val	Ile	Phe
				35					40					45
Pro	Ile	Gln	Tyr	Pro	Asp	Ile	Trp	Lys	Met	Tyr	Lys	Gln	Ala	Gln
				50					55					60
Ala	Ser	Phe	Trp	Thr	Ala	Glu	Glu	Val	Asp	Leu	Ser	Lys	Asp	Leu
				65					70					75
Pro	His	Trp	Asn	Lys	Leu	Lys	Ala	Asp	Glu	Lys	Tyr	Phe	Ile	Ser
				80					85					90
His	Ile	Leu	Ala	Phe	Phe	Ala	Ala	Ser	Asp	Gly	Ile	Val	Asn	Glu
				95					100					105
Asn	Leu	Val	Glu	Arg	Phe	Ser	Gln	Glu	Val	Gln	Val	Pro	Glu	Ala
				110					115					120
Arg	Cys	Phe	Tyr	Gly	Phe	Gln	Ile	Leu	Ile	Glu	Asn	Val	His	Ser
				125					130					135
Glu	Met	Tyr	Ser	Leu	Leu	Ile	Asp	Thr	Tyr	Ile	Arg	Asp	Pro	Lys
				140					145					150
Lys	Arg	Glu	Phe	Leu	Phe	Asn	Ala	Ile	Glu	Thr	Met	Pro	Tyr	Val
				155					160					165
Lys	Lys	Lys	Ala	Asp	Trp	Ala	Leu	Arg	Trp	Ile	Ala	Asp	Arg	Lys

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	170		175		180
Ser Thr Phe Gly	Glu Arg Val Val Ala	Phe Ala Ala Val Glu Gly			
	185		190		195
Val Phe Phe Ser	Gly Ser Phe Ala Ala	Ile Phe Trp Leu Lys Lys			
	200		205		210
Arg Gly Leu Met	Pro Gly Leu Thr Phe	Ser Asn Glu Leu Ile Ser			
	215		220		225
Arg Asp Glu Gly	Leu His Cys Asp Phe	Ala Cys Leu Met Phe Gln			
	230		235		240
Tyr Leu Val Asn	Lys Pro Ser Glu Glu	Arg Val Arg Glu Ile Ile			
	245		250		255
Val Asp Ala Val	Lys Ile Glu Gln Glu	Phe Leu Thr Glu Ala Leu			
	260		265		270
Pro Val Gly Leu	Ile Gly Met Asn Cys	Ile Leu Met Lys Gln Tyr			
	275		280		285
Ile Glu Phe Val	Ala Asp Arg Leu Leu	Val Glu Leu Gly Phe Ser			
	290		295		300
Lys Val Phe Gln	Ala Glu Asn Pro Phe	Asp Phe Met Glu Asn Ile			
	305		310		315
Ser Leu Glu Gly	Lys Thr Asn Phe Phe	Glu Lys Arg Val Ser Glu			
	320		325		330
Tyr Gln Arg Phe	Ala Val Met Ala Glu	Thr Thr Asp Asn Val Phe			
	335		340		345
Thr Leu Asp Ala	Asp Phe				
	350				

<210> 12

<211> 681

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 2604993CD1

<400> 12

Met Thr Ala Ser	Pro Asp Tyr Leu Val	Val Leu Phe Gly Ile Thr
1	5	10 15
Ala Gly Ala Thr	Gly Ala Lys Leu Gly	Ser Asp Glu Lys Glu Leu
	20	25 30
Ile Leu Leu Phe	Trp Lys Val Val Asp	Leu Ala Asn Lys Lys Val
	35	40 45
Gly Gln Leu His	Glu Val Leu Val Arg	Pro Asp Gln Leu Glu Leu
	50	55 60
Thr Glu Asp Cys	Lys Glu Glu Thr Lys	Ile Asp Val Glu Ser Leu
	65	70 75
Ser Ser Ala Ser	Gln Leu Asp Gln Ala	Leu Arg Gln Phe Asn Gln
	80	85 90
Ser Val Ser Asn	Glu Leu Asn Ile Gly	Val Gly Thr Ser Phe Cys
	95	100 105
Leu Cys Thr Asp	Gly Gln Leu His Val	Arg Gln Ile Leu His Pro
	110	115 120
Glu Ala Ser Lys	Lys Asn Val Leu Leu	Pro Glu Cys Phe Tyr Ser
	125	130 135
Phe Phe Asp Leu	Arg Lys Glu Phe Lys	Lys Cys Cys Pro Gly Ser
	140	145 150

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Pro Asp Ile Asp	Lys Leu Asp Val Ala	Thr Met Thr Glu Tyr Leu
155	160	165
Asn Phe Glu Lys	Ser Ser Ser Val Ser	Arg Tyr Gly Ala Ser Gln
170	175	180
Val Glu Asp Met	Gly Asn Ile Ile Leu	Ala Met Ile Ser Glu Pro
185	190	195
Tyr Asn His Arg	Phe Ser Asp Pro Glu	Arg Val Asn Tyr Lys Phe
200	205	210
Glu Ser Gly Thr	Cys Ser Lys Met Glu	Leu Ile Asp Asp Asn Thr
215	220	225
Val Val Arg Ala	Arg Gly Leu Pro Trp	Gln Ser Ser Asp Gln Asp
230	235	240
Ile Ala Arg Phe	Phe Lys Gly Leu Asn	Ile Ala Lys Gly Gly Ala
245	250	255
Ala Leu Cys Leu	Asn Ala Gln Gly Arg	Arg Asn Gly Glu Ala Leu
260	265	270
Val Arg Phe Val	Ser Glu Glu His Arg	Asp Leu Ala Leu Gln Arg
275	280	285
His Lys His His	Met Gly Thr Arg Tyr	Ile Glu Val Tyr Lys Ala
290	295	300
Thr Gly Glu Asp	Phe Leu Lys Ile Ala	Gly Gly Thr Ser Asn Glu
305	310	315
Val Ala Gln Phe	Leu Ser Lys Glu Asn	Gln Val Ile Val Arg Met
320	325	330
Arg Gly Leu Pro	Phe Thr Ala Thr Ala	Glu Glu Val Val Ala Phe
335	340	345
Phe Gly Gln His	Cys Pro Ile Thr Gly	Gly Lys Glu Gly Ile Leu
350	355	360
Phe Val Thr Tyr	Pro Asp Gly Arg Pro	Thr Gly Asp Ala Phe Val
365	370	375
Leu Phe Ala Cys	Glu Glu Tyr Ala Gln	Asn Ala Leu Arg Lys His
380	385	390
Lys Asp Leu Leu	Gly Lys Arg Tyr Ile	Glu Leu Phe Arg Ser Thr
395	400	405
Ala Ala Glu Val	Gln Gln Val Leu Asn	Arg Phe Ser Ser Ala Pro
410	415	420
Leu Ile Pro Leu	Pro Thr Pro Pro Ile	Ile Pro Val Leu Pro Gln
425	430	435
Gln Phe Val Pro	Pro Thr Asn Val Arg	Asp Cys Ile Arg Leu Arg
440	445	450
Gly Leu Pro Tyr	Ala Ala Thr Ile Glu	Asp Ile Leu Asp Phe Leu
455	460	465
Gly Glu Phe Ala	Thr Asp Ile Arg Thr	His Gly Val His Met Val
470	475	480
Leu Asn His Gln	Gly Arg Pro Ser Gly	Asp Ala Phe Ile Gln Met
485	490	495
Lys Ser Ala Asp	Arg Ala Phe Met Ala	Ala Gln Lys Cys His Lys
500	505	510
Lys Asn Met Lys	Asp Arg Tyr Val Glu	Val Phe Gln Cys Ser Ala
515	520	525
Glu Glu Met Asn	Phe Val Leu Met Gly	Gly Thr Leu Asn Arg Asn
530	535	540
Gly Leu Ser Pro	Pro Pro Cys Lys Leu	Pro Cys Leu Ser Pro Pro
545	550	555
Ser Tyr Thr Phe	Pro Ala Pro Ala Ala	Val Ile Pro Thr Glu Ala
560	565	570
Ala Ile Tyr Gln	Pro Ser Val Ile Leu	Asn Pro Arg Ala Leu Gln

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575	580	585
Pro Ser Thr Ala Tyr Tyr Pro Ala Gly Thr Gln Leu Phe Met Asn		
590	595	600
Tyr Thr Ala Tyr Tyr Pro Ser Pro Pro Gly Ser Pro Asn Ser Leu		
605	610	615
Gly Tyr Phe Pro Thr Ala Ala Asn Leu Ser Gly Val Pro Pro Gln		
620	625	630
Pro Gly Thr Val Val Arg Met Gln Gly Leu Ala Tyr Asn Thr Gly		
635	640	645
Val Lys Glu Ile Leu Asn Phe Phe Gln Gly Tyr Gln Tyr Ala Thr		
650	655	660
Glu Asp Gly Leu Ile His Thr Asn Asp Gln Ala Arg Thr Leu Pro		
665	670	675
Lys Glu Trp Val Cys Ile		
680		

<210> 13

<211> 408

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 2879070CD1

<400> 13

Met Ser Ser Leu Val Glu Thr Phe Val Ser Lys Ala Ser Ala Leu		
1	5	10
Gln Arg Gln Gly Arg Ala Gly Arg Val Arg Asp Gly Phe Cys Phe		
20	25	30
Arg Met Tyr Thr Arg Glu Arg Phe Glu Gly Phe Met Asp Tyr Ser		
35	40	45
Val Pro Glu Ile Leu Arg Val Pro Leu Glu Glu Leu Cys Leu His		
50	55	60
Ile Met Lys Cys Asn Leu Gly Ser Pro Glu Asp Phe Leu Ser Lys		
65	70	75
Ala Leu Asp Pro Pro Gln Leu Gln Val Ile Ser Asn Ala Met Asn		
80	85	90
Leu Leu Arg Lys Ile Gly Ala Cys Glu Leu Asn Glu Pro Lys Leu		
95	100	105
Thr Pro Leu Gly Gln His Leu Ala Ala Leu Pro Val Asn Val Lys		
110	115	120
Ile Gly Lys Met Leu Ile Phe Gly Ala Ile Phe Gly Cys Leu Asp		
125	130	135
Pro Val Ala Thr Leu Ala Ala Val Met Thr Glu Lys Ser Pro Phe		
140	145	150
Thr Thr Pro Ile Gly Arg Lys Asp Glu Ala Asp Leu Ala Lys Ser		
155	160	165
Ala Leu Ala Met Ala Asp Ser Asp His Leu Thr Ile Tyr Asn Ala		
170	175	180
Tyr Leu Gly Trp Lys Lys Ala Arg Gln Glu Gly Gly Tyr Arg Ser		
185	190	195
Glu Ile Thr Tyr Cys Arg Arg Asn Phe Leu Asn Arg Thr Ser Leu		
200	205	210
Leu Thr Leu Glu Asp Val Lys Gln Glu Leu Ile Lys Leu Val Lys		
215	220	225

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Ala	Ala	Gly	Phe	Ser	Ser	Ser	Thr	Thr	Ser	Thr	Ser	Trp	Glu	Gly	230	235	240
Asn	Arg	Ala	Ser	Gln	Thr	Leu	Ser	Phe	Gln	Glu	Ile	Ala	Leu	Leu	245	250	255
Lys	Ala	Val	Leu	Val	Ala	Gly	Leu	Tyr	Asp	Asn	Val	Gly	Lys	Ile	260	265	270
Ile	Tyr	Thr	Lys	Ser	Val	Asp	Val	Thr	Glu	Lys	Leu	Ala	Cys	Ile	275	280	285
Val	Glu	Thr	Ala	Gln	Gly	Lys	Ala	Gln	Val	His	Pro	Ser	Ser	Val	290	295	300
Asn	Arg	Asp	Leu	Gln	Thr	His	Gly	Trp	Leu	Leu	Tyr	Gln	Glu	Lys	305	310	315
Ile	Arg	Tyr	Ala	Arg	Val	Tyr	Leu	Arg	Glu	Thr	Thr	Leu	Ile	Thr	320	325	330
Pro	Phe	Pro	Val	Leu	Leu	Phe	Gly	Gly	Asp	Ile	Glu	Val	Gln	His	335	340	345
Arg	Glu	Arg	Leu	Leu	Ser	Ile	Asp	Gly	Trp	Ile	Tyr	Phe	Gln	Ala	350	355	360
Pro	Val	Lys	Ile	Ala	Val	Ile	Phe	Lys	Gln	Leu	Arg	Val	Leu	Ile	365	370	375
Asp	Ser	Val	Leu	Arg	Lys	Lys	Leu	Glu	Asn	Pro	Lys	Met	Ser	Leu	380	385	390
Glu	Asn	Asp	Lys	Ile	Leu	Gln	Ile	Ile	Thr	Glu	Leu	Ile	Lys	Thr	395	400	405
Glu	Asn	Asn															

<210> 14

<211> 351

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 3093845CD1

<400> 14

Met	Ile	Pro	Lys	Ser	Tyr	Thr	Glu	Glu	Asp	Leu	Arg	Glu	Lys	Phe	1	5	10	15
Lys	Val	Tyr	Gly	Asp	Ile	Glu	Tyr	Cys	Ser	Ile	Ile	Lys	Asn	Lys	20	25	30	35
Val	Thr	Gly	Glu	Ser	Lys	Gly	Leu	Gly	Tyr	Val	Arg	Tyr	Leu	Lys	40	45	50	55
Pro	Ser	Gln	Ala	Ala	Gln	Ala	Ile	Glu	Asn	Cys	Asp	Arg	Ser	Phe	60	65	70	75
Arg	Ala	Ile	Leu	Ala	Glu	Pro	Lys	Asn	Lys	Ala	Ser	Glu	Ser	Ser	80	85	90	95
Glu	Gln	Asp	Tyr	Tyr	Ser	Asn	Met	Arg	Gln	Glu	Ala	Leu	Gly	His	100	105	110	115
Glu	Pro	Arg	Val	Asn	Met	Phe	Pro	Phe	Val	Gly	Glu	Gln	Gln	Ser	120	125	130	135
Glu	Phe	Ser	Ser	Phe	Asp	Lys	Asn	Asp	Ser	Arg	Gly	Gln	Glu	Ala				
Ile	Ser	Lys	Arg	Glu	Ser	Val	Val	Ser	Arg	Val	Pro	Phe	Thr	Glu				
Glu	Gln	Leu	Phe	Ser	Ile	Phe	Asp	Ile	Val	Pro	Gly	Leu	Glu	Tyr				

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	140		145		150
Cys Glu Val Gln	Arg Asp Pro Tyr Ser	Asn Tyr Gly His Gly	Val		
	155		160		165
Val Gln Tyr Phe	Asn Val Ala Ser Ala	Ile Tyr Ala Lys Tyr	Lys		
	170		175		180
Leu His Gly Phe	Gln Tyr Pro Pro Gly	Asn Arg Ile Gly	Val Ser		
	185		190		195
Phe Ile Asp Asp	Gly Ser Asn Ala Thr	Asp Leu Leu Arg Lys	Met		
	200		205		210
Ala Thr Gln Met	Val Ala Ala Gln Leu	Ala Ser Met Val Trp	Asn		
	215		220		225
Asn Pro Ser Gln	Gln Gln Phe Met Gln	Phe Gly Gly Ser Ser	Gly		
	230		235		240
Ser Gln Leu Pro	Gln Ile Gln Thr Asp	Val Val Leu Pro Ser	Cys		
	245		250		255
Lys Lys Lys Ala	Pro Ala Glu Thr Pro	Val Lys Glu Arg Leu	Phe		
	260		265		270
Ile Val Phe Asn	Pro His Pro Leu Pro	Leu Asp Val Leu Glu	Asp		
	275		280		285
Ile Phe Cys Arg	Phe Gly Asn Leu Ile	Glu Val Tyr Leu Val	Ser		
	290		295		300
Gly Lys Asn Val	Gly Tyr Ala Lys Tyr	Ala Asp Arg Ile Ser	Ala		
	305		310		315
Asn Asp Ala Ile	Ala Thr Leu His Gly	Lys Ile Leu Asn Gly	Val		
	320		325		330
Arg Leu Lys Val	Met Leu Ala Asp Ser	Pro Arg Glu Glu Ser	Asn		
	335		340		345
Lys Arg Gln Arg	Thr Tyr				
	350				

<210> 15

<211> 472

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 3685685CD1

<400> 15

Met Gly Gln Ser	Gly Arg Ser Arg His	Gln Lys Arg Ala Arg	Ala
1	5	10	15
Gln Ala Gln Leu	Arg Asn Leu Glu Ala	Tyr Ala Ala Asn Pro	His
	20	25	30
Ser Phe Val Phe	Thr Arg Gly Cys Thr	Gly Arg Asn Ile Arg	Gln
	35	40	45
Leu Ser Leu Asp	Val Arg Arg Val Met	Glu Pro Leu Thr Ala	Ser
	50	55	60
Arg Leu Gln Val	Arg Lys Lys Asn Ser	Leu Lys Asp Cys Val	Ala
	65	70	75
Val Ala Gly Pro	Leu Gly Val Thr His	Phe Leu Ile Leu Ser	Lys
	80	85	90
Thr Glu Thr Asn	Val Tyr Phe Lys Leu	Met Arg Leu Pro Gly	Gly
	95	100	105
Pro Thr Leu Thr	Phe Gln Val Lys Lys	Tyr Ser Leu Val Arg	Asp
	110	115	120

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Val	Val	Ser	Ser	Leu	Arg	Arg	His	Arg	Met	His	Glu	Gln	Gln	Phe
				125					130					135
Ala	His	Pro	Pro	Leu	Leu	Val	Leu	Asn	Ser	Phe	Gly	Pro	His	Gly
				140					145					150
Met	His	Val	Lys	Leu	Met	Ala	Thr	Met	Phe	Gln	Asn	Leu	Phe	Pro
				155					160					165
Ser	Ile	Asn	Val	His	Lys	Val	Asn	Leu	Asn	Thr	Ile	Lys	Arg	Cys
				170					175					180
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<212> PRT

<213> Homo sapiens

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<220>

<221> misc_feature

<223> Incyte ID No.: 3825977CD1

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<213> Homo sapiens

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<211> 2596

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<213> Homo sapiens

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<210> 30

<211> 1777

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No.: 2879070CB1

<400> 30

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<210> 31

<211> 1382

<212> DNA

<213> Homo sapiens

WO 00/15799

PCT/US99/21688

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<223> Incyte ID No.: 3093845CB1

<400> 31

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gctgacatgt atttttgaat ccatacatc atgctaaaac gaatatagta gttgttcctt 1320
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<210> 32

<211> 1828

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No.: 3685685CB1

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<210> 33

<211> 2602

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> Incyte ID No.: 3825977CB1

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<210> 34
<211> 566
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No.: 4941262CB1

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<210> 35
<211> 183
<212> PRT
<213> Homo sapiens

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<300>
<308> Incyte ID No.: g2961149

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Gly Arg Tyr Gly Pro Ile Val Asp Val Tyr Val Pro Leu Asp Phe
             35             40             45
Tyr Thr Arg Arg Pro Arg Gly Phe Ala Tyr Val Gln Phe Glu Asp
             50             55             60
Val Arg Asp Ala Glu Asp Ala Leu His Asn Leu Asp Arg Lys Trp

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Ala	Gln	Glu	Glu	Glu	Met	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Gly	260	265	270
Glu	Ala	Gly	Glu	Ala	Gly	Glu	Ala	Glu	Ser	Glu	Lys	Gly	Gly	Glu	275	280	285
Glu	Leu	Leu	Pro	Pro	Glu	Ser	Thr	Pro	Ile	Pro	Ala	Asn	Leu	Ser	290	295	300
Gln	Asn	Leu	Glu	Ala	Ala	Ala	Ala	Thr	Gln	Val	Ala	Val	Ser	Val	305	310	315
Pro	Lys	Arg	Arg	Arg	Lys	Ile	Lys	Glu	Leu	Asn	Lys	Lys	Glu	Ala	320	325	330
Val	Gly	Asp	Leu	Leu	Asp	Ala	Phe	Lys	Glu	Ala	Asn	Pro	Ala	Val	335	340	345
Pro	Glu	Val	Glu	Asn	Gln	Pro	Pro	Ala	Gly	Ser	Asn	Pro	Gly	Pro	350	355	360
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Lys	Pro	Pro	Asn	Leu	Glu	Glu	Lys	Lys	Arg	Tyr	Asp	Arg	Glu	Phe	410	415	420
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Thr	Pro	Leu	Arg	Pro	Leu	Asp	Pro	Thr	Arg	Leu	Gln	Gly	Ile	Asn	455	460	465
Cys	Gly	Pro	Asp	Phe	Thr	Pro	Ser	Phe	Ala	Asn	Leu	Gly	Arg	Thr	470	475	480
Thr	Leu	Ser	Thr	Arg	Gly	Pro	Pro	Arg	Gly	Gly	Pro	Gly	Gly	Glu	485	490	495
Leu	Pro	Arg	Gly	Pro	Gln	Ala	Gly	Leu	Gly	Pro	Arg	Arg	Ser	Gln	500	505	510
Gln	Gly	Pro	Arg	Lys	Glu	Pro	Arg	Lys	Ile	Ile	Ala	Thr	Val	Leu	515	520	525
Met	Thr	Glu	Asp	Ile	Lys	Leu	Asn	Lys	Ala	Glu	Lys	Ala	Trp	Lys	530	535	540
Pro	Ser	Ser	Lys	Arg	Thr	Ala	Ala	Asp	Lys	Asp	Arg	Gly	Glu	Glu	545	550	555
Asp	Ala	Asp	Gly	Ser	Lys	Thr	Gln	Asp	Leu	Phe	Arg	Arg	Val	Arg	560	565	570
Ser	Ile	Leu	Asn	Lys	Leu	Thr	Pro	Gln	Met	Phe	Gln	Gln	Leu	Met	575	580	585
Lys	Gln	Val	Thr	Gln	Leu	Ala	Ile	Asp	Thr	Glu	Glu	Arg	Leu	Lys	590	595	600
Gly	Val	Ile	Asp	Leu	Ile	Phe	Glu	Lys	Ala	Ile	Ser	Glu	Pro	Asn	605	610	615
Phe	Ser	Val	Ala	Tyr	Ala	Asn	Met	Cys	Arg	Cys	Leu	Met	Ala	Leu	620	625	630
Lys	Val	Pro	Thr	Thr	Glu	Lys	Pro	Thr	Val	Thr	Val	Asn	Phe	Arg	635	640	645
Lys	Leu	Leu	Leu	Asn	Arg	Cys	Gln	Lys	Glu	Phe	Glu	Lys	Asp	Lys			

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650	655	660
Asp Asp Asp Glu Val Phe Glu Lys Lys	Gln Lys Glu Met Asp Glu	
665	670	675
Ala Ala Thr Ala Glu Glu Arg Gly Arg	Leu Lys Glu Glu Leu Glu	
680	685	690
Glu Ala Arg Asp Ile Ala Arg Arg Arg	Ser Leu Gly Asn Ile Lys	
695	700	705
Phe Ile Gly Glu Leu Phe Lys Leu Lys	Met Leu Thr Glu Ala Ile	
710	715	720
Met His Asp Cys Val Val Lys Leu Leu	Lys Asn His Asp Glu Glu	
725	730	735
Ser Leu Glu Cys Leu Cys Arg Leu Leu	Thr Thr Ile Gly Lys Asp	
740	745	750
Leu Asp Phe Glu Lys Ala Lys Pro Arg	Met Asp Gln Tyr Phe Asn	
755	760	765
Gln Met Glu Lys Ile Ile Lys Glu Lys	Lys Thr Ser Ser Arg Ile	
770	775	780
Arg Phe Met Leu Gln Asp Val Leu Asp	Leu Arg Gly Ser Asn Trp	
785	790	795
Val Pro Arg Arg Gly Asp Gln Gly Pro	Lys Thr Ile Asp Gln Ile	
800	805	810
His Lys Glu Ala Glu Met Glu Glu His	Arg Glu His Ile Lys Val	
815	820	825
Gln Gln Leu Met Ala Lys Gly Ser Asp	Lys Arg Arg Gly Gly Pro	
830	835	840
Pro Gly Pro Pro Ile Ser Arg Gly Leu	Pro Leu Val Asp Asp Gly	
845	850	855
Gly Trp Asn Thr Val Pro Ile Ser Lys	Gly Ser Arg Pro Ile Asp	
860	865	870
Thr Ser Arg Leu Thr Lys Ile Thr Lys	Pro Gly Ser Ile Asp Ser	
875	880	885
Asn Asn Gln Leu Phe Ala Pro Gly Gly	Arg Leu Ser Trp Gly Lys	
890	895	900
Gly Ser Ser Gly Gly Ser Gly Ala Lys	Pro Ser Asp Ala Ala Ser	
905	910	915
Glu Ala Ala Arg Pro Ala Thr Ser Thr	Leu Asn Arg Phe Ser Ala	
920	925	930
Leu Gln Gln Ala Val Pro Thr Glu Ser	Thr Asp Asn Arg Arg Val	
935	940	945
Val Gln Arg Ser Ser Leu Ser Arg Glu	Arg Gly Glu Lys Ala Gly	
950	955	960
Asp Arg Gly Asp Arg Leu Glu Arg Ser	Glu Arg Gly Gly Asp Arg	
965	970	975
Gly Asp Arg Leu Asp Arg Ala Arg Thr	Pro Ala Thr Lys Arg Ser	
980	985	990
Phe Ser Lys Glu Val Glu Glu Arg Ser	Arg Glu Arg Pro Ser Gln	
995	1000	1005
Pro Glu Gly Leu Arg Lys Ala Ala Ser	Leu Thr Glu Asp Arg Asp	
1010	1015	1020
Arg Gly Arg Asp Ala Val Lys Arg Glu	Ala Ala Leu Pro Pro Val	
1025	1030	1035
Ser Pro Leu Lys Ala Ala Leu Ser Glu	Glu Glu Leu Glu Lys Lys	
1040	1045	1050
Ser Lys Ala Ile Ile Glu Glu Tyr Leu	His Leu Asn Asp Met Lys	
1055	1060	1065
Glu Ala Val Gln Cys Val Gln Glu Leu	Ala Ser Pro Ser Leu Leu	
1070	1075	1080

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Phe Ile Phe Val Arg His Gly Val Glu Ser Thr Leu Glu Arg Ser
 1085 1090 1095
 Ala Ile Ala Arg Glu His Met Gly Gln Leu Leu His Gln Leu Leu
 1100 1105 1110
 Cys Ala Gly His Leu Ser Thr Ala Gln Tyr Tyr Gln Gly Leu Tyr
 1115 1120 1125
 Glu Ile Leu Glu Leu Ala Glu Asp Met Glu Ile Asp Ile Pro His
 1130 1135 1140
 Val Trp Leu Tyr Leu Ala Glu Leu Val Thr Pro Ile Leu Gln Glu
 1145 1150 1155
 Gly Gly Val Pro Met Gly Glu Leu Phe Arg Glu Ile Thr Lys Pro
 1160 1165 1170
 Leu Arg Pro Leu Gly Lys Ala Ala Ser Leu Leu Leu Glu Ile Leu
 1175 1180 1185
 Gly Leu Leu Cys Lys Ser Met Gly Pro Lys Lys Val Gly Thr Leu
 1190 1195 1200
 Trp Arg Glu Ala Gly Leu Ser Trp Lys Glu Phe Leu Pro Glu Gly
 1205 1210 1215
 Gln Asp Ile Gly Ala Phe Val Ala Glu Gln Lys Val Glu Tyr Thr
 1220 1225 1230
 Leu Gly Glu Glu Ser Glu Ala Pro Gly Gln Arg Ala Leu Pro Ser
 1235 1240 1245
 Glu Glu Leu Asn Arg Gln Leu Glu Lys Leu Leu Lys Glu Gly Ser
 1250 1255 1260
 Ser Asn Gln Arg Val Phe Asp Trp Ile Glu Ala Asn Leu Ser Glu
 1265 1270 1275
 Gln Gln Ile Val Ser Asn Thr Leu Val Arg Ala Leu Met Thr Ala
 1280 1285 1290
 Val Cys Tyr Ser Ala Ile Ile Phe Glu Thr Pro Leu Arg Val Asp
 1295 1300 1305
 Val Ala Val Leu Lys Ala Arg Ala Lys Leu Leu Gln Lys Tyr Leu
 1310 1315 1320
 Cys Asp Glu Gln Lys Glu Leu Gln Ala Leu Tyr Ala Leu Gln Ala
 1325 1330 1335
 Leu Val Val Thr Leu Glu Gln Pro Pro Asn Leu Leu Arg Met Phe
 1340 1345 1350
 Phe Asp Ala Leu Tyr Asp Glu Asp Val Val Lys Glu Asp Ala Phe
 1355 1360 1365
 Tyr Ser Trp Glu Ser Ser Lys Asp Pro Ala Glu Gln Gln Gly Lys
 1370 1375 1380
 Gly Val Ala Leu Lys Ser Val Thr Ala Phe Phe Lys Trp Leu Arg
 1385 1390 1395
 Glu Ala Glu Glu Glu Ser Asp His Asn
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[illegible]

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Ala	Glu	Asp	Met	Thr	Ser	Lys	Asp	Tyr	Tyr	Phe	Asp	Ser	Tyr	Ala	
				20					25					30	
His	Phe	Gly	Ile	His	Glu	Glu	Met	Leu	Lys	Asp	Glu	Val	Arg	Thr	
				35					40					45	
Leu	Thr	Tyr	Arg	Asn	Ser	Met	Phe	His	Asn	Arg	His	Leu	Phe	Lys	
				50					55					60	
Asp	Lys	Val	Val	Leu	Asp	Val	Gly	Ser	Gly	Thr	Gly	Ile	Leu	Cys	
				65					70					75	
Met	Phe	Ala	Ala	Lys	Ala	Gly	Ala	Arg	Lys	Val	Ile	Gly	Ile	Val	
				80					85					90	
Cys	Ser	Ser	Ile	Ser	Asp	Tyr	Ala	Val	Lys	Ile	Val	Lys	Ala	Asn	
				95					100					105	
Lys	Leu	Asp	His	Val	Val	Thr	Ile	Ile	Lys	Gly	Lys	Val	Glu	Glu	
				110					115					120	
Val	Glu	Leu	Pro	Val	Glu	Lys	Val	Asp	Ile	Ile	Ile	Ser	Glu	Trp	
				125					130					135	
Met	Gly	Tyr	Cys	Leu	Phe	Tyr	Glu	Ser	Met	Leu	Asn	Thr	Val	Leu	
				140					145					150	
Tyr	Ala	Arg	Asp	Lys	Trp	Leu	Ala	Pro	Asp	Gly	Leu	Ile	Phe	Pro	
				155					160					165	
Asp	Arg	Ala	Thr	Leu	Tyr	Val	Thr	Ala	Ile	Glu	Asp	Arg	Gln	Tyr	
				170					175					180	
Lys	Asp	Tyr	Lys	Ile	His	Trp	Trp	Glu	Asn	Val	Tyr	Gly	Phe	Asp	
				185					190					195	
Met	Ser	Cys	Ile	Lys	Asp	Val	Ala	Ile	Lys	Glu	Pro	Leu	Val	Asp	
				200					205					210	
Val	Val	Asp	Pro	Lys	Gln	Leu	Val	Thr	Asn	Ala	Cys	Leu	Ile	Lys	
				215					220					225	
Glu	Val	Asp	Ile	Tyr	Thr	Val	Lys	Val	Glu	Asp	Leu	Thr	Phe	Thr	
				230					235					240	
Ser	Pro	Phe	Cys	Leu	Gln	Val	Lys	Arg	Asn	Asp	Tyr	Val	His	Ala	
				245					250					255	
Leu	Val	Ala	Tyr	Phe	Asn	Ile	Glu	Phe	Thr	Arg	Cys	His	Lys	Arg	
				260					265					270	
Thr	Gly	Phe	Ser	Thr	Ser	Pro	Glu	Ser	Pro	Tyr	Thr	His	Trp	Lys	
				275					280					285	
Gln	Thr	Val	Phe	Tyr	Met	Glu	Asp	Tyr	Leu	Thr	Val	Lys	Thr	Gly	
				290					295					300	
Glu	Glu	Ile	Phe	Gly	Thr	Ile	Gly	Met	Arg	Pro	Asn	Ala	Lys	Asn	
				305					310					315	
Asn	Arg	Asp	Leu	Asp	Phe	Thr	Ile	Asp	Leu	Asp	Phe	Lys	Gly	Gln	
				320					325					330	
Leu	Cys	Glu	Leu	Ser	Cys	Ser	Thr	Asp	Tyr	Arg	Met	Arg			
				335					340						